



Water Resources ♦ Flood Control ♦ Water Rights

## MEMORANDUM

October 15, 2025

**TO:** Reclamation District No. 756

**FROM:** Nathan Hershey, Mike Kynett

**SUBJECT: October 2025 Engineer's Report**

Described below are the engineering items to be discussed at your October 15, 2025 meeting.

**Subventions 2024-25** – The District submitted an application for participation in the Program in the amount of \$631,000. A total of \$16 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2024-25. We are in the process of compiling the District's claim and will submit prior to the November 1 deadline.

**Subventions 2025-26** – The District submitted an application for participation in the Program in the amount of \$750,000. A total of \$16 million has been approved by the Central Valley Flood Protection Board for the Program for FY 2025-26.

**Annual Maintenance** – Attached are the current maintenance items we are tracking.

**Regional Flood Fight Supply Depot** – No updates this month. Our last communication with Sacramento County indicated flood fight materials would be received sometime around April. We are still waiting for delivery.

**FEMA** – All closeout documentation has been completed and submitted to CalOES.

The FEMA reimbursement rate is 100% for eligible costs incurred between 12/27/22 and 2/25/23 and 75% for eligible costs incurred between 2/26/23 and 7/14/23. The total claim amount for 100% FEMA reimbursement is \$11,441.42. The total claim amount for 75% FEMA reimbursement is \$18,738.10. CalOES will reimburse 75% of the 25% not reimbursed by FEMA (\$3,513.39). The approximate total combined reimbursement amount is expected to be \$29,008. The eligible costs in the claim are PG&E bills for electricity for the pump stations.

**Special Projects** – Construction of the Directed Action project to rehabilitate the north levee (BO-19-1-SP) is complete. We are working with DWR and CDFW on satisfying mitigation requirements. The funding agreement has been extended to December 31, 2027.

The design team is working on the final phase of the BO-17-1-SP project, which includes setting the levee back in the project area (Stations 500-550), creating a habitat bench, and relocating the pump station. Our goal is to submit drawings for permits in 2025 and be ready for construction in 2026. Our recent activities include reoccurring project team meetings, preparing preliminary plans for the levee setback and habitat bench, engaging with our subconsultants, and meeting with the District regarding preferences and features of the new pump station. A design workshop was held on September 9 to discuss the design of the habitat bench and other design related issues.

DWR has provided a funding agreement in the amount of \$900,000 for planning, permitting and design of a multi-benefit project from Stations 415-500 with a State cost share of 90%. The agreement (BO-24-1-SP) has been fully executed, and advance funding has been received. A kick-off meeting was held and the project design is in progress. We have acquired topographic survey data and are working on a design configuration. Geotechnical exploration is complete as well as some environmental surveys.

**SB 88** – Phase 5 flow meter and Wildeye telemetry equipment installations have been completed on Bouldin Island and Webb Tract. Wildeye staff also repaired or replaced some broken units on Bouldin and Webb.

A separate request for proposals was released in September for Bacon Island and Holland Tract and closed on October 2nd. Additionally, the mounting of steel poles on Bacon Island and Holland Tract siphons will need to be completed prior to the Wildeye installations. This work was previously completed by Reclamation District staff after the new flow meters were installed on Bouldin Island and Webb Tract.

Across all four islands, 62 siphons have measurement equipment. However, the meters on 4 of those siphons broke and 1 siphon has a meter with a dead battery. 2 of the 4 broken meters are old saddle meters from the experimentation that took place starting in 2016 (these are the last 2 meters of this type). The other 2 of the 4 broken meters are Seametrics AG 3000 meters that were damaged by natural elements. However, 1 of the broken AG3000 meters is on the land side of the siphon and the new AG3000 will need to be installed on the water side of the siphon. Gornto has completed 2 out of 4 of the replacements. Once the replacements are complete, Wildeye will need to reinstall the equipment. This can most likely be done at the same time as equipment installs on Bacon Island and Holland Tract. MWD purchased 15 batteries from Technoflo, which MBK staff have been using to replace expired or damaged batteries. MBK will continue to monitor all sites via Wildeye's website and will conduct additional site visits as needed to replace batteries and inspect equipment. Flow meter batteries have an estimated lifespan of approximately 3 years; therefore, any meters installed in 2022 or earlier that have not yet undergone battery replacement will continue to be monitored until replacement is needed.

All Wildeye units are currently working, with the exception of:

- (1) Bouldin Island Siphon 24: The data collected is not being recorded correctly in Wildeye, which we believe is due to a configuration issue. Wildeye worked on this meter during Phase 5 installations, but it appears that it is still not working. MBK has contacted Wildeye about this siphon.
- (2) Bacon Island Siphon 10: Wildeye was reinstalled incorrectly after levee work. Will be moved to steel pole during phase 5 installations.
- (3) Bacon Island Siphon 31: Wildeye solar panel is missing (may have been stolen). To be fixed during phase 5 installs.

All flow meters are currently working, with the exception of:

- (1) Bouldin Island Siphon 2: This is a Seametrics AG 3000 meter that was damaged by natural elements. It was replaced with the complimentary Seametrics AG 3000 12" meter and 14" conversion kit provided by TechnoFlo. Wildeye needs to move equipment to the new meter.

- (2) Bouldin Island Siphon 22: While at the site, the meter said pipe empty but the siphon was running. Wildeye showed data on and off throughout the day. MBK to conduct further review of data and reach out to TechnoFlo.
- (3) Bouldin Island Siphon 26: This is a broken saddle meter that was installed during the experiment phase, which started in 2016. This meter can be replaced with one of the surplus Seametrics AG 3000 12" meters purchased by MWD during the Phase 5 equipment purchase. The extra 14" conversion kit no longer needed for Bouldin Island Siphon 9, can be used. Gornto to fix.
- (4) Webb Tract Siphon 6: This is a Seametrics AG 3000 meter that was damaged by debris. It was replaced with one of the Seametrics AG 3000 surplus 12" meters purchased by MWD during the Phase 5 equipment purchase. Wildeye needs to move equipment to the new meter.
- (5) Webb Tract Siphon 8: While at the site, the meter said pipe empty but the siphon was running. Wildeye also does not show any diversions. MBK to conduct further review of data and reach out to TechnoFlo.
- (6) Bacon Island Siphon 14: Grounding cable disconnected and dead battery. Issues getting lid off. MBK to reach out to Cronin about getting lid off and fixing grounding cable. MBK to then replace battery.
- (7) Bacon Island Siphon 24: Flow rate on meter seems high compared to Wildeye. MBK to conduct further review of data.
- (8) Bacon Island Siphon 25: This is a broken saddle meter that was installed during the experiment phase, which started in 2016. This meter can be replaced with one of the Seametrics AG 3000 surplus 12" meters purchased by MWD during the Phase 5 equipment purchase. Gornto to fix.
- (9) Bacon Island Siphon 28: Old equipment at this site. MBK to reach out to Cronin about removing old equipment.

MWD staff reviewed the technical report on the 2024 OpenET and measured diversion comparison, which MBK subsequently finalized.

Annual water right reporting for water year 2025 has started as of October 1, 2025. MBK worked with MWD to set up an account in CalWATRS and discuss account needs with SWRCB staff.

MBK met with MWD and Tetra Tech on March 6, 2025, to discuss the Bouldin Island Water Balance. Tetra Tech requested recommendation by MBK regarding the metering of the discharge pumps. MBK worked with TechnoFlo to obtain a quote for a strap on flow meter, which Technoflo recommended for the pump stations on Bouldin. The quote is with MWD. Here are some of the key details of the recommended meter:

- Works for any size pipe
- Has a +/-2% accuracy
- Has a built-in data logger
- Much more cost effective than the mag meters
- Interference between meters should not be an issue
- Easy to install. However, external power is required so an electrician will be needed

Earlier this year, MWD mentioned that it may have interest in purchasing 5 backup meters in case of meter failures now that the original backup meters are being used. TechnoFlo provided a quote for the meters listed below. MBK sent MWD the quote with the understanding that MWD would complete the purchase. MBK will follow up with MWD to see if this purchase was completed or if there is a plan to complete this purchase.

- 14 inch meter (Seametrics) - Quantity 2
- 16 inch meter (McCrometer) - Quantity 1
- 18 inch meter (McCrometer) - Quantity 2

# RD 756 – Bouldin Island

## Issue Tracking Summary

October 13, 2025

Issue ID	Priority	Report Date	Reporter	Location	Issue Type	Description	Action	Field Notes
041	Medium	March 28, 2017 5:00 PM	RalphHeringer	Station 544-549	Crack	Cracking in LS Slope; seepage and cattails at toe	Monitor	Monitor and discuss repair; 10/23/17 Levee crown trenched; no encroachments located, Area to be graded and prepared for flood season; will proceed under Special Projects upon receipt of PFA. 12/4/17 - grading complete
41.1		April 24, 2020 12:00 AM	Nate Hershey					Reviewed the site area. Area appears to be moving again - not as dramatic as in 2017, but it appears to be along the same fault lines. Seepage observed exiting the surface. Recommend performing an updated survey and developing an action plan.
41.2		March 10, 2023 1:00 AM	Andrew Petrini					Visual observation suggests recent movement may have occurred. AECOM reports no significant movement detected by instrumentation at this time.
053	Medium	August 11, 2017 12:00 AM	Nate Hershey	Station 324	Seepage	Seepage at toe of 3 to 1 slope	Monitor	Monitor
054	Medium	August 11, 2017 12:00 AM	Nate Hershey	Station 336	Seepage		Monitor	Monitor; The hole is shallow at about 1-2 inches deep.
074	Low	January 5, 2019 5:54 PM	Russ Ryan	Land side within 150 foot Levee footprint. See attached photos. Low wet areas.	Other, Sinkhole	Bouldin Island - West stretch length adjacent to Mokelumne River. See attached photos for exact location.	Investigate	See notes above.
088	Low	June 7, 2019 1:55 PM	Dave Forkel	Sta 382+00	Seepage	Seepage on side of levee.	Investigate	

096	Medium	April 22, 2020 12:00 AM	Russ Ryan	Between 630 and 640	Seepage	Appears to be seepage	Investigate	
107	Medium	December 17, 2020 2:05 PM	Russ Ryan	Station 630	Seepage	Just inside levee footprint on land side of toe drain there water ponding. Was there prior to any rain this season during dry period.	Monitor	See photos taken on site.
116	Medium	February 21, 2022 3:23 PM	Russ Ryan	West levee north of camp 5 at pilot project instrumentation area.	Seepage	Noticeable standing water at toe of levee at the same 2017 slippage event.	Investigate	Need Geotech investigation and assessments.
117	Low	February 23, 2022 12:10 PM	Russ Ryan	Location is landside off west levee (Bouldin Isalnd) and south of Hwy 12	Seepage	Landside water ponding presenting at toe of levee.	Investigate	Roughly an estimated 30 feet by 10 feet. Dimensions need to be verified in field investigation.
121	Medium	October 14, 2022 12:00 AM	Nate Hershey	Station 33	Seepage	Seepage observed periodically on toe of levee. Seems to come and go, sometimes difficult to tell if it is seepage or ponding water. Observations suggest it is likely seepage that periodically appears during times of high water.	Investigate	
144	Medium	October 18, 2023 1:27 PM	Jack Cronin	East levee. See point, near Caution marker in water.	Sloughing	Sloughing, appears old. Likely not from earthquake.	Monitor	
145	Medium	October 18, 2023 1:31 PM	Jack Cronin	See point.	Sloughing	Minor sloughing. Potentially from seismic event	Investigate	